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UNITED STATES ARTMENT OF COMMERCE

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HOUSTON	• TX 77079	221L 0.19		ART UNIT	PAPER NUMBER
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				DATE MAILED:	
This is a com	munication from the ex	saminer in charge of your appli	cation		01/28/87
		OF PATENTS AND TRADEM			
This application has	been examined [Responsive to communicat	ion filed on	This a	ction is made final.
thertened atabutan					
flure to respond within	the period for response	s action is set to expire <u>3</u> e will cause the application to	month(s), day	ys from the date o	f this letter.
		c min cause the application to	become abandoned. 35	U.S.C. 133	
THE FOLLO	NING ATTACHMENT(S) ARE PART OF THIS ACTIO			
Notice of Ref	erences Cited by Exam Cited by Applicant, P1		2. Notice re Patent	Drawing, PTO-948	В.
Information or	How to Effect Drawin	r Changes, PTO-1474	4. Notice of informa 6.	l Patent Applicati	on, Form PTO-152
	THE TO ENCE DIDNING	g Changes, F 10-14/4	•• 🗆		
tii Summary of	ACTION				
. Claims	-38				
K 0.0				are pen	ding in the application.
Of the	above, claims _			are with	ndrawn from consideration.
L Claims					
· Claims				have be	en cancelled.
l. Claims				are allo	wed.
Marine 15	-38				
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Claims				are obje	ected to.
. Claims			are sub	ject to restriction	or election requirement.
This applicati	on has been filed with	informat drawings which are a	cceptable for examination of	nurnoses until euc	h time at allowable tubiest
matter is indic	ated.				ii time as allowable subject
. Allowable sub	ject matter having been	indicated, formal drawings ar	e required in response to t	his Office action.	
The corrected	or substitute drawings	have been received on	The		7
not accept	table (see explanation)		- The	se drawings are [acceptable;
The propos	sed drawing correction	and/or the proposed addit	ional or substitute sheet(s) of drawings, file	d on
has (have) bee	n approved by the	e examiner. [] disapproved by	y the examiner (see explan	ation),	
. The proposed	drawing correction, file	ed	has been approved. [disapproved (see explanation). However
the Patent and	Trademark Office no I	onger makes drawing changes.	It is now applicant's resp	ponsibility to ensu	ire that the drawings are
corrected. Co	rrections <u>MUST</u> be effe	cted in accordance with the in	structions set forth on the	attached letter "	INFORMATION ON HOW
EFFECT DRA	WING CHANGES", PT	0-1474.			
. Acknowledge	ent is made of the claim	n for priority under 35 U.S.C. 1	19 The certified con-	. [har	
					not been received
		serial no			
		in condition for allowance exce		ecution as to the	merits is closed in
accordance wi	th the practice under E	x parte Quayle, 1935 C.D. 11;	; 453 O.G. 213,		
. Other					

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The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 1-3, and 7-11 are rejected under 35 U.S.C. 103 as being unpatentable over Hammerslag.

Hammerslag teaches a method implanting an intraluminal vascular graft which comprises the steps of; disposing a thin-walled tubular graft on a balloon catheter, placing the catheter in the blood vessel, then stretching the graft by inflating the balloon such that the graft remains in place when the balloon is removed. See Hammerslag column 2, lines 39-53. The graft is made of a biologically inert material. Even though Hammerslag's tubular member does not entirely meet the structural description, the method steps are clearly analogous to applicant's method steps.

Claims 13-15,18-21,23-27,29-30 and 33-34 are rejected under 35 U.S.C. 103 as being unpatentable over Didcott.

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Didcott shows a thin-walled tubular dilator which can be used in blood vessels having a wire mesh which is slotted much as applicant's device and which is covered with a resilient material (see page 1, lines 53-73). Didcott's dilator has a first diameter which permits it to enter the blood vessel and a second diameter which cause it to foce out upon the interior walls of the vessel. The dilator can also have spikes (see element 16) which would help to hold the dilator in place.

Claims 1-11,13-15,17-21,23-27,29-30 and 32-38 are rejected under 35 U.S.C. 103 as being unpatentable over Hammerslag et al as applied to claim 1 above, and further in view of Didcott.

It would be obvious to one of ordinary skill in the art to provide Hammerslags thin-walled graft with a wire mesh sleeve as taught by Didcott. Hammerslag teaches at column 2, lines 44-48, that his graft stretches beyond its elastic point when the balloon is inflated, thereby causing it to remain in place against the vessel wall. It would be obvious to provide a wire which would also plastically deform under the same balloon force.

Claims 12,22 and 28 are rejected under 35 U.S.C.

103 as being unpatentable over Hammerslag et al. in view of Didoctt as applied to claim 1 above, and further in view of Walsten.

Walsten teaches the openings through a coated wire tubular prosthesis. It would be obvious to leave openings through the wall of Hammerslag and/or Didcotts device.

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Claims 4-6,9-12,16 and 31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 4-6 and 9-12 are vague and indefinite in that they contain no further method step or limitation of a previously defined method step. Method claims are not further limited merely by defining structure. Claims 16 and 31 are vague and indefinite in that they seem to describe the graft as exherting no force on the vessel wall which it must remain attached to. This is contrary to examiners understanding of the purpose of the prosthesis, e.g., to hold itself in place in the vessel by exherting a force against the vessel wall.

Any inquiry concerning this communication should be directed to G. Kartchner at telephone number 703-557-3131.

G. Kartchner:dg

01/21/87

FRED ROSENBAUM S. P. E. ART UNIT 336

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